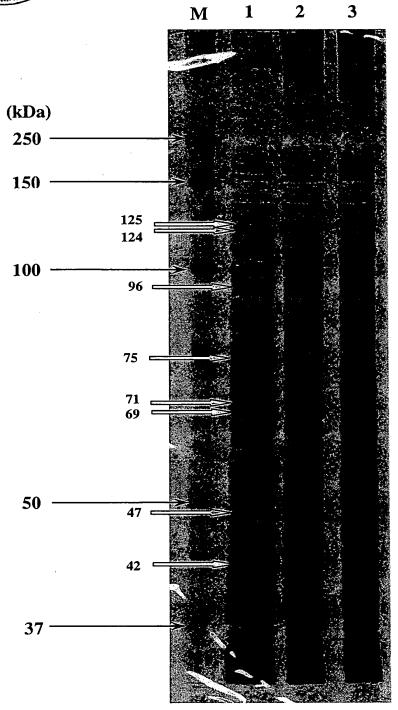


- : Logarithmic growth phase (36 h, 10^{9,5} UFC/ml)
- : Logarithmic growth phase (36 h, 10^{8,5} UFC/ml)
- ▲ : Stationary phase (48 h, 10^{9,9} UFC/ml)
- △ : Stationary phase (48 h, 10^{8,9} UFC/ml)
- : Stationary phase (72 h, 10^{10,2} UFC/ml)
- ☐ : Stationary phase (72 h, 109 UFC/ml)
- ◆ : Control group (Non-infection group)

Fig. 3



M: Molecular weight marker

Lane 1: Logarithmic growth phase (36 h)

Lane 2: Stationary phase (48 h)

Lane 3: Stationary phase (72 h)

Arrow: Bands specific to logarithmic growth phase

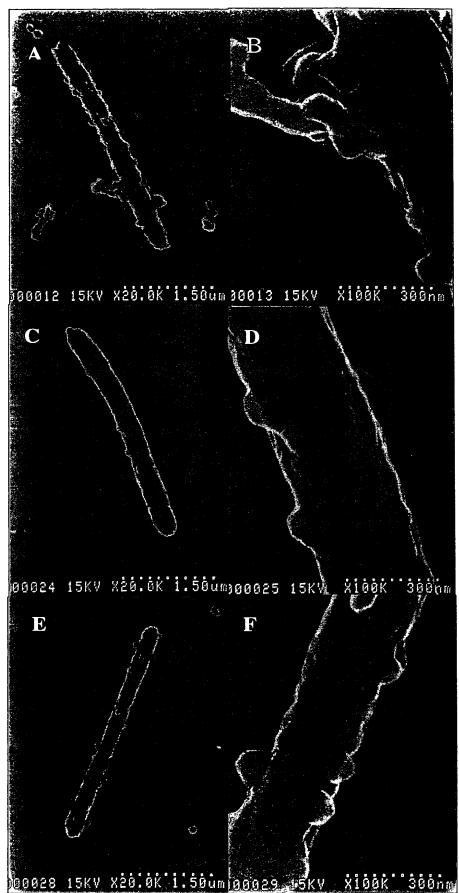


Fig. 4

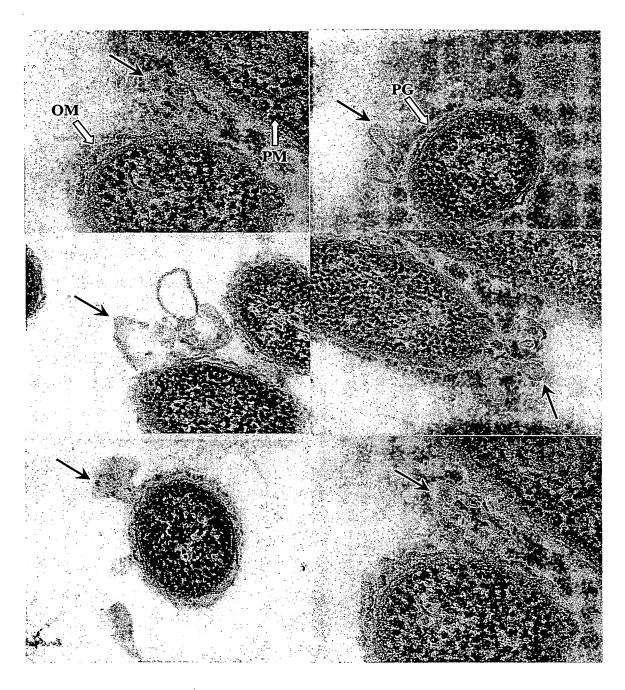
Logarithmic growth phase (36 h)

Stationary phase (48 h)

Stationary phase (72 h)







OM: Outer membrane

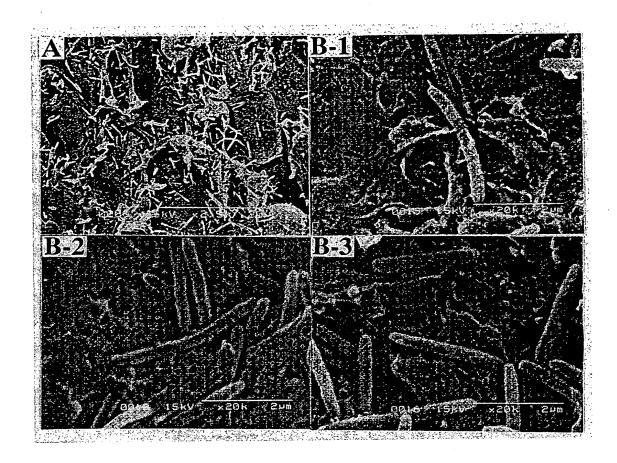
PG: Peptidoglycan membrane

PX: Plasma membrane

Arrow: Projections on the cell surface



Fig. 6



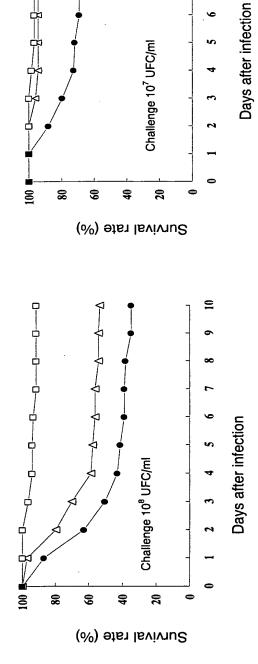
A = Magnification $\times 2.500$

B = Magnification \times 20.000

10

Challenge 1 (3 days after vaccine administration)

Fig. 7

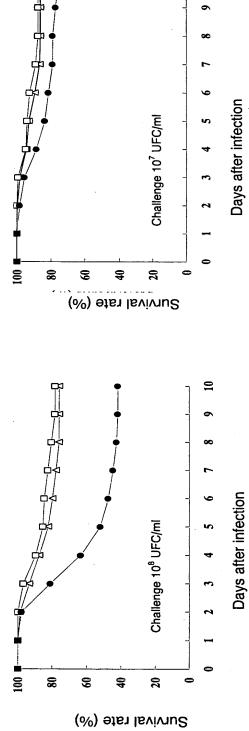


 \triangle : Everyday administration

 $\hfill\Box$: 5 days' administration in 2 weeks

Control group

Challenge 2 (7 weeks after vaccine administration)



 $\triangle:$ Everyday administration

 $\hfill\Box$: 5 days' administration in 2 weeks

: Control group

Fig. 8





B-2 B-1

Fig. 10

Fig. 9

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